STATE OF ALASKA
ALASKA OIL AND GAS CONSERVATION COMMISSION

GAS WELL OPEN FLOW POTENTIAL TEST REPORT

1a. Test: ☐ Initial ☐ Annual ☐ Special	1b. Type Test: ☐ Stabilized ☐ Non Stabilized ☐ Multipoint ☐ Constant Time ☐ Isochronal ☐ Other	
2. Operator Name:	5. Date Completed:	11. Permit to Drill Number:
3. Address:	6. Date TD Reached:	12. API Number: 50-
4a. Location of Well (Governmental Section): Surface:	7. KB Elevation (ft):	13. Well Name and Number:
Top of Productive Horizon:	8. Plug Back Depth(MD+TVD):	14. Field/Pool(s):
Total Depth:	9. Total Depth (MD + TVD):	
4b. Location of Well (State Base Plane Coordinates): Surface: x- y- Zone- TPI: x- y- Zone- Total Depth: x- y- Zone-	10. Land Use Permit:	15. Property Designation:
	16. Type of Completion (Describe):	

17. Casing Size	Weight per foot, lb.	I.D. in inches	Set at ft.	19. Perforations: From	To
18. Tubing Size	Weight per foot, lb.	I.D. in inches	Set at ft.		

20. Packer set at ft:	21. GOR cf/bbl:	22. API Liquid Hydrocarbons:	23. Specific Gravity Flowing Fluid (G):
24a. Producing through: ☐ Tubing ☐ Casing	24b. Reservoir Temp: F°	24c. Reservoir Pressure: psia @ Datum TVDSS	24d. Barometric Pressure (Pa): psia

25. Length of Flow Channel (L):	Vertical Depth (H):	Gg:	% CO_2:	% N_2:	% H_2S:	Prover:	Meter Run:	Taps:

26.	FLOW DATA				TUBING DATA		CASING DATA		
No.	Prover Line Size (in.) X Choke Orifice Size (in.)	Pressure psig	Diff. Hw	Temp. F°	Pressure psig	Temp. F°	Pressure psig	Temp. F°	Duration of Flow Hr.
1.	X								
2.	X								
3.	X								
4.	X								
5.	X								

No.	Basic Coefficient (24-Hour) Fb or Fp	$\sqrt{hwPm}$	Pressure Pm	Flow Temp. Factor Ft	Gravity Factor Fg	Super Comp. Factor Fpv	Rate of Flow Q_1 Mcfd
1.							
2.							
3.							
4.							
5.							

No.	Pr	Temperature T	Tr	z		for Separator Gas Gg	for Flowing Fluid G
1.							
2.							
3.					Critical Pressure		
4.					Critical Temperature		
5.							

Pc _____ Pc^2 _____ Pf _____ Pf^2 _____

No.	Pt	Pt^2	Pc^2-Pt^2	Pw	Pw^2	Pc^2-Pw^2	Ps	Ps^2	Pf^2-Ps^2
1.									
2.									
3.									
4.									
5.									

25.

AOF (Mcfd) _____ n _____

Remarks:

I hereby certify that the foregoing is true and correct to the best of my knowledge.

Signed _____ Title _____ Date _____

DEFINITIONS OF SYMBOLS

AOF	Absolute Open Flow Potential. Rate of Flow that would be obtained if the bottom hole pressure opposite the producing face were reduced to zero psia
Fb	Basic orifice factor Mcfd/ $\sqrt{hwPm}$
Fp	Basic critical flow prover or positive choke factor Mcfd/psia
Fg	Specific gravity factor, dimensionless
Fpv	Super compressibility factor= $\sqrt{1/Z}$ dimensionless
Ft	Flowing temperature factor, dimensionless
G	Specific gravity of flowing fluid (air=1.000), dimensionless
Gg	Specific gravity of separator gas (air=1.00), dimensionless
GOR	Gas-oil ratio, cu. ft. of gas (14.65 psia and 60 degrees F) per barrel oil (60 degrees F)
hw	Meter differential pressure, inches of water
H	Vertical depth corresponding to L, feet (TVD)
L	Length of flow channel, feet (MD)
n	Exponent (slope) of back-pressure equation, dimensionless
Pa	Field barometric pressure, psia
Pc	Shut-in wellhead pressure, psia
Pf	Shut-in pressure at vertical depth H, psia
Pm	Static pressure at point of gas measurement, psia
Pr	Reduced pressure, dimensionless
Ps	Flowing pressure at vertical depth H, psia
Pt	Flowing wellhead pressure, psia
Pw	Static column wellhead pressure corresponding to Pt, psia
Q	Rate of flow, Mcfd (14.65 psia and 60 degrees F)
Tr	Reduced temperature, dimensionless
T	Absolute temperature, degrees Rankin
Z	Compressibility factor, dimensionless

Recommended procedures for tests and calculations may be found in the *Manual of Back- Pressure Testing of Gas Wells* , Interstate Oil Compact Commission, Oklahoma City, Oklahoma.